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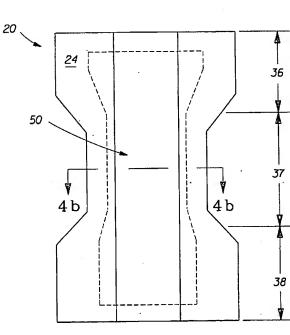
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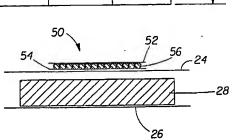
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[Continued on next page]

(54) Title: ABSORBENT ARTICLE WITH TOILET TRAINING AID, CREATING A TEMPERATURE CHANGE WHEN WET





(57) Abstract: A wearable article useful for facilitating toilet training is provided. The wearable article includes a temperature change element providing a cool/wet signal when wetted which causes discomfort to the wearer. The temperature change element comprises a temperature change substance disposed on an impermeable material in order to maximize the thermal signal provided to the skin of the wearer.



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GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY,

- DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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In ional Application No PCT/US 02/15197

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61F13/42 A61F13/537 A61F13	/15	
According to	o International Patent Classification (IPC) or to both national classifi	cation and IPC	
B. FIELDS	SEARCHED		
	cumentation searched (classification system followed by classifica $A61F$	tion symbols) .	
Documenta	ion searched other than minimum documentation to the extent that	such documents are included in the fields sea	rched
Electronic d	ata base consulted during the International search (name of data b	ase and, where practical, search terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
X	US 5 649 914 A (BRUNNER MICHAEL AL) 22 July 1997 (1997-07-22) column 5, line 7 -column 35 column 8, line 16 - line 32 column 9, line 2 - line 57 column 10, line 59 -column 11, line 59 -column 10, line 59 -column 11, line 59 -c	·	1-4,6, 8-12
Furth	er documents are listed in the continuation of box C.	X Patent family members are listed in	annex.
° Special cat	egories of cited documents :		
"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the circumstration of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or priority date on or after the international filing date or priority date on a fact the international filing date or priority date on the priority date on the priority date of another claim or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory unde			
	December 2002	Date of mailing of the international search report	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer DOUSKAS, K	

INTERNATIONAL SEARCH REPORT

rnational application No. PCT/US 02/15197

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)		
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:		
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)		
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:		
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.		
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:		
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8		
Remar	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-8

A wearable article worn around the lower torso of a wearer, comprising a temperature change element including a permeable layer, an impermeable layer disposed in face to face arrangement with the permeable layer and a temperature change substance between the permeable layer and the impermeable layer.

1.1. Claims: 9-16, 23, 24

A disposable diaper, comprising backsheet a topsheet and an absorbent core disposed between the topsheet and the backsheet and a temperature change element disposed on the topsheet.

2. Claims: 17-22

A disposable diaper, comprising backsheet a topsheet and an absorbent core disposed between the topsheet and the backsheet and a (plurality of) temperature change elements disposed between the topsheet and the absorbent core parallel to and spaced apart from the longitudinal axis,

3. Claims: 25-26

A disposable diaper, comprising backsheet a topsheet and an absorbent core disposed between the topsheet and the backsheet and impermeable barrier leg cuffs disposed on the topsheet and temperature change elements disposed on the barrier cuffs, the temperature change element including a permeable layer, an impermeable layer formed by the barrier leg cuff.

INTERNATIONAL SEARCH REPORT

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CA 2208891 A 27-0 DE 69520599 D 10-0 DE 69520599 T 31-1 EP 0799004 A 08-1 ES 2155545 T 16-0 JP 10511278 T 04-1 W0 9619168 A 27-0 US 5797892 A 25-0	03-1998 07-1996 07-1998 06-1996 05-2001 0-2001 0-1997 05-2001 1-1998 06-1996 08-1998
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